

1.

Report on the Deer Creek - Boulder
Distribution System
For the year 1937

By Francis Lyman, Water Commissioner.

To the State Engineer of Utah:

That this system is still in the pioneering stage, will be evidenced by the material and mechanics of this report. It was only from your recent letter that we were ~~informed~~ that such a report was expected from us. Facilities for obtaining accurate data were not available so we can only make general statements of the facts.

The unusually severe drought of the past several seasons was relieved by a heavy snow at the beginning of the year, and the streams held up unexpectedly well during the entire irrigation season.

Progress was made in the functioning of the Irrigation Company in the handling of the water under this system throughout the season. However there are yet many problems confronting us and it is hoped that we may bring about an efficient and satisfactory distribution and use of the water under this system.

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3.

Sketch map of distribution system

You are referred to a blue-print map on file in the State Engineer's office submitted by Boulder Irrigation and Reservoir Company, which is a map of proposed reservoirs, existing and proposed canals and lands irrigated.

4.

Acknowledgment of assistance from individuals and agencies.

No assistance was had except that former Commissioner F. C. Hansen gave advice and minor assistance on placing of measuring weirs.

5.

A general meeting was held by the water users on May 11, 1937, in which it was voted that the Board be authorized to select a water Commissioner. The Board met the same day and chose Francis Lyman.

Water Users Committee:

Claude V. Baker - Chairman -	Boulder, Utah
Francis Lyman Vice Chairman	Boulder, Utah
W.A. Wilson Secy.-Treas.	Boulder, Utah
John King 6. member	Boulder, Utah
Henry Hawk 6. member	Boulder, Utah

General description and boundary lines of the distribution system

- (a) This system is comprised of the Boulder Creek and the Deer Creek. As it lies on the head-waters and no other diversion is made until it joins the Colorado River there is no other local Commissioner.
- (b) These streams rise from under the "rim" of the south-east end of the Aquarius Plateau. In Garfield and Wayne Counties. The streams are fed by springs at the elevations of 8,000 to 10,000 feet. The streams join about fifteen miles south-east of the irrigation district and finally empty into the Escalante River.
- (c) There is a drainage area of approximately eight miles (East and West) by eleven miles (North and South) on top of the Aquarius Plateau at about

the 10,000 foot elevation, which is comparatively level table land covered with spruce. In a normal year the snow run-off breaks about May 10 and lasts until about June 1. Our Spectacle Lake Reservoir is located there. There is also an area of about the same dimensions "under the rim" which has a very steep slope and is covered with aspen and Western yellow pine. The snow run-off occurs here in April.

(D) Spectacle Lake Reservoir, located on the head of the West-fork of Boulder Creek, SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Sec. 30, T. 31 S. R. 4 E, S. L. Mer. Boulder Irrigation & Water-Development Company, owner. 1,200 acre feet stored in 1937 - no water was carried over

(E) The climatic conditions is arid in the irrigation district. With prevailing winds from the southwest. The precipitation is about seven inches. Killing frosts sometimes occur in the latter part of May but ordinarily all kinds of fruits and melons may be grown here. The irrigation season is from April 1 to Oct 31. The chief crops grown here are alfalfa, meadows and pastures of Redtop, timothy and white clover, some oats and wheat, a small amount of corn, orchards and gardens for home use. 1937 was a good irrigation season.

- (4) There are no snow observation stations. The snowfall was unusual in two ways. First instead of several storms there was one exceptionally heavy one, and (2) the snow was approximately as deep in the low country as in the mountains.
- (5) There are no power plants.
- (6) Distribution was made under the decrees of McCarty of 1901 for 24 c.f.t. in Boulder Creek, Lloyd Garrison, 1924 on Deer Creek and filings of A. C. Hansen and Boulder Irrigation and Reservoir Company.
- (7) The supply was sufficient to fill the primary rights. only about $33\frac{1}{3}\%$ of secondary rights were supplied.

(8)

- (8) Some minor adjustments were made in the division of water on one of the ditches taken out of the Lyman Canal.

7.

No ~~have~~ investigation made, no constructions made, and no damages done, by flood, wind hail etc.

Name of Ditch	9. Division Dam	Headgate	measuring device	Recommendation
Lower Boulder Canal	Earth dam	Plank with gate	none (except each diversion takes stream through splitter divider)	
Lyman Ditch	Earth dam	none	Divider giving Lyman ditch $\frac{2}{10}$ of East Fork Boulder	
King Ditch	Earth dam	none	none few scattered dividers	

10

No records kept except that occasional estimated measurements were made. and the flow kept within the primary rights during most of the season.

11.

About 10,000 acre feet wasted from our system. The reservoirs filed on by the Boulder Irrigation and Water-Development Company together with a site in sec. 3, T. 32 So. R. 4 E on East fork Boulder would hold approximately 500 acre feet.

See typed rept
in Comm. rept file